

# Day Ahead Market Zonal LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Zonal Data

09/17/2018

| Name   | 00:00 | 01:00 | 02:00 | 03:00 | 04:00 | 05:00 | 06:00 | 07:00 | 08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00 | 18:00 | 19:00 | 20:00 | 21:00 | 22:00 | 23:00 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PTID   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   | EDT   |
| CAPITL | 28.10 | 28.41 | 28.98 | 28.67 | 28.68 | 28.94 | 34.82 | 36.09 | 38.22 | 40.46 | 41.66 | 41.98 | 44.12 | 46.66 | 47.17 | 49.49 | 51.88 | 52.02 | 45.48 | 47.92 | 45.68 | 39.67 | 34.47 | 31.74 |
| 61757  | 1.89  | 1.69  | 1.57  | 1.54  | 1.59  | 1.99  | 2.26  | 2.37  | 2.68  | 2.74  | 2.59  | 2.61  | 2.63  | 2.99  | 2.98  | 3.26  | 3.33  | 3.47  | 3.08  | 3.32  | 3.17  | 2.68  | 2.33  | 2.11  |
|        | -0.99 | -4.46 | -6.71 | -6.90 | -6.77 | -0.44 | 0.18  | 0.19  | 0.22  | 0.24  | 0.26  | 0.26  | 0.28  | 0.30  | 0.31  | 0.34  | 0.36  | 0.36  | 0.29  | 0.31  | 0.29  | 0.23  | 0.18  | 0.15  |
| CENTRL | 26.36 | 23.25 | 21.65 | 21.10 | 21.13 | 26.49 | 32.86 | 33.85 | 35.65 | 38.13 | 39.88 | 40.15 | 42.27 | 44.35 | 44.87 | 46.85 | 49.15 | 49.09 | 43.02 | 45.29 | 43.18 | 37.35 | 32.35 | 29.85 |
| 61754  | 0.38  | 0.38  | 0.39  | 0.36  | 0.39  | 0.13  | 0.42  | 0.27  | 0.25  | 0.57  | 0.98  | 0.91  | 0.96  | 0.79  | 0.89  | 0.84  | 0.83  | 0.78  | 0.81  | 0.90  | 0.86  | 0.52  | 0.32  | 0.33  |
|        | -0.75 | -0.61 | -0.56 | -0.51 | -0.42 | 0.15  | 0.31  | 0.33  | 0.36  | 0.40  | 0.43  | 0.39  | 0.46  | 0.42  | 0.51  | 0.56  | 0.59  | 0.59  | 0.47  | 0.52  | 0.48  | 0.39  | 0.29  | 0.24  |
| DUNWOD | 28.25 | 27.52 | 27.42 | 27.06 | 27.05 | 29.00 | 35.43 | 36.86 | 38.94 | 41.11 | 42.39 | 42.76 | 45.06 | 47.53 | 48.10 | 50.39 | 52.92 | 53.01 | 46.11 | 48.36 | 46.01 | 40.45 | 35.29 | 32.51 |
| 61760  | 2.27  | 1.87  | 1.63  | 1.60  | 1.59  | 2.07  | 2.69  | 2.95  | 3.18  | 3.15  | 3.07  | 3.13  | 3.30  | 3.56  | 3.60  | 3.82  | 4.01  | 4.11  | 3.42  | 3.46  | 3.21  | 3.24  | 2.97  | 2.74  |
|        | -0.75 | -3.39 | -5.09 | -5.24 | -5.14 | -0.42 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |
| GENESE | 26.00 | 23.02 | 21.47 | 20.95 | 20.96 | 26.27 | 32.72 | 33.33 | 35.17 | 37.75 | 39.85 | 40.04 | 42.19 | 43.84 | 44.40 | 46.27 | 48.63 | 48.52 | 42.65 | 44.93 | 42.89 | 37.09 | 32.07 | 29.65 |
| 61753  | 0.23  | 0.31  | 0.35  | 0.32  | 0.31  | -0.13 | 0.20  | -0.34 | -0.32 | 0.08  | 0.83  | 0.71  | 0.75  | 0.22  | 0.27  | 0.09  | 0.15  | 0.05  | 0.30  | 0.40  | 0.43  | 0.15  | -0.03 | 0.06  |
|        | -0.54 | -0.45 | -0.43 | -0.40 | -0.33 | 0.11  | 0.23  | 0.24  | 0.26  | 0.29  | 0.30  | 0.31  | 0.33  | 0.36  | 0.36  | 0.40  | 0.42  | 0.43  | 0.34  | 0.38  | 0.35  | 0.28  | 0.21  | 0.18  |
| H Q    | 22.93 | 20.78 | 19.64 | 19.31 | 19.57 | 16.25 | 16.25 | 16.25 | 16.25 | 16.25 | 16.25 | 16.25 | 17.01 | 16.93 | 17.01 | 16.66 | 17.01 | 17.01 | 17.01 | 17.01 | 17.01 | 16.25 | 16.25 | 16.25 |
| 61844  | -0.91 | -0.82 | -0.77 | -0.75 | -0.75 | -0.98 | -1.21 | -1.19 | -1.25 | -1.37 | -1.45 | -1.47 | -1.54 | -1.58 | -1.60 | -1.67 | -1.76 | -1.76 | -1.54 | -1.61 | -1.58 | -1.34 | -1.16 | -1.10 |
|        | 1.39  | 0.66  | 0.28  | 0.16  | 0.00  | 9.28  | 15.28 | 16.47 | 18.25 | 20.35 | 21.62 | 21.91 | 23.21 | 25.46 | 25.89 | 28.24 | 30.14 | 30.14 | 24.15 | 26.28 | 24.21 | 19.63 | 14.90 | 12.42 |
| HUD VL | 28.13 | 27.41 | 27.29 | 26.91 | 26.90 | 28.94 | 35.37 | 36.79 | 38.72 | 41.00 | 42.23 | 42.56 | 44.90 | 47.36 | 47.92 | 50.25 | 52.77 | 52.77 | 45.98 | 48.23 | 45.89 | 40.20 | 35.03 | 32.21 |
| 61758  | 2.17  | 1.83  | 1.59  | 1.54  | 1.52  | 2.01  | 2.62  | 2.88  | 2.97  | 3.04  | 2.91  | 2.93  | 3.13  | 3.39  | 3.43  | 3.68  | 3.86  | 3.86  | 3.29  | 3.32  | 3.08  | 2.98  | 2.71  | 2.44  |
|        | -0.73 | -3.33 | -5.00 | -5.15 | -5.05 | -0.41 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |
| LONGIL | 28.82 | 27.83 | 27.57 | 27.23 | 27.14 | 29.42 | 36.12 | 37.78 | 39.83 | 41.57 | 43.31 | 44.11 | 46.40 | 48.98 | 49.57 | 51.83 | 54.58 | 54.82 | 47.51 | 51.81 | 47.47 | 41.61 | 36.48 | 33.43 |
| 61762  | 2.85  | 2.18  | 1.78  | 1.76  | 1.67  | 2.49  | 3.37  | 3.86  | 4.07  | 3.61  | 3.97  | 4.48  | 4.64  | 5.01  | 5.07  | 5.26  | 5.67  | 5.92  | 4.82  | 5.07  | 4.67  | 4.39  | 3.94  | 3.66  |
|        | -0.75 | -3.39 | -5.10 | -5.25 | -5.15 | -0.42 | 0.00  | 0.00  | 0.00  | 0.00  | -0.02 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -1.83 | 0.00  | -0.22 | 0.00  |       |
| MHK VL | 26.86 | 23.62 | 21.94 | 21.40 | 21.45 | 26.04 | 31.89 | 33.11 | 34.80 | 36.91 | 38.24 | 38.56 | 40.66 | 42.64 | 43.18 | 44.99 | 47.34 | 47.25 | 41.48 | 43.70 | 41.80 | 36.27 | 31.64 | 29.20 |
| 61756  | 0.68  | 0.58  | 0.52  | 0.51  | 0.57  | 0.72  | 1.18  | 1.32  | 1.39  | 1.56  | 1.69  | 1.74  | 1.88  | 1.93  | 2.00  | 2.05  | 2.30  | 2.20  | 1.88  | 2.16  | 2.10  | 1.56  | 1.23  | 1.01  |
|        | -0.95 | -0.78 | -0.73 | -0.67 | -0.56 | 1.19  | 2.03  | 2.12  | 2.34  | 2.61  | 2.78  | 2.81  | 2.98  | 3.27  | 3.32  | 3.62  | 3.87  | 3.85  | 3.09  | 3.36  | 3.10  | 2.51  | 1.91  | 1.59  |
| MILLWD | 28.20 | 27.52 | 27.46 | 27.09 | 27.07 | 28.98 | 35.43 | 36.86 | 38.86 | 41.11 | 42.39 | 42.76 | 45.06 | 47.53 | 48.10 | 50.39 | 53.02 | 53.06 | 46.19 | 48.45 | 46.10 | 40.42 | 35.23 | 32.42 |
| 61759  | 2.22  | 1.85  | 1.63  | 1.58  | 1.56  | 2.04  | 2.69  | 2.95  | 3.11  | 3.15  | 3.07  | 3.13  | 3.30  | 3.56  | 3.60  | 3.82  | 4.11  | 4.15  | 3.50  | 3.55  | 3.30  | 3.20  | 2.91  | 2.65  |
|        | -0.75 | -3.42 | -5.14 | -5.28 | -5.18 | -0.42 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |
| N.Y.C. | 28.50 | 27.75 | 27.64 | 27.25 | 27.26 | 29.24 | 35.76 | 37.49 | 39.36 | 41.57 | 42.82 | 43.23 | 45.56 | 47.97 | 48.45 | 50.76 | 53.36 | 53.40 | 46.40 | 48.77 | 46.27 | 40.91 | 37.22 | 32.90 |
| 61761  | 2.52  | 2.09  | 1.84  | 1.78  | 1.79  | 2.31  | 3.01  | 3.36  | 3.61  | 3.61  | 3.50  | 3.61  | 3.80  | 4.00  | 3.96  | 4.19  | 4.45  | 4.50  | 3.71  | 3.86  | 3.47  | 3.69  | 3.33  | 3.13  |
|        | -0.75 | -3.39 | -5.10 | -5.25 | -5.15 | -0.42 | 0.00  | -0.22 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | -0.01 | -1.58 | 0.00  |       |
| NORTH  | 19.85 | 19.13 | 18.73 | 18.66 | 19.24 | 16.88 | 17.66 | 18.22 | 18.46 | 18.54 | 18.76 | 18.83 | 19.87 | 20.01 | 20.14 | 20.05 | 20.73 | 20.38 | 19.78 | 19.92 | 19.70 | 18.34 | 17.73 | 17.43 |
| 61755  | -1.24 | -1.16 | -1.12 | -1.07 | -1.08 | -1.25 | -1.28 | -0.98 | -1.00 | -1.25 | -1.26 | -1.23 | -1.17 | -1.23 | -1.25 | -1.30 | -1.27 | -1.32 | -1.11 | -1.26 | -1.24 | -1.15 | -1.13 | -1.13 |
|        | 4.15  | 1.97  | 0.85  | 0.49  | 0.00  | 8.39  | 13.81 | 14.70 | 16.30 | 18.17 | 19.30 | 19.57 | 20.72 | 22.73 | 23.11 | 25.21 | 26.91 | 27.21 | 21.80 | 23.73 | 21.86 | 17.72 | 13.46 | 11.21 |
| NPX    | 28.06 | 27.92 | 28.23 | 27.93 | 27.89 | 28.92 | 35.00 | 36.25 | 38.33 | 40.47 | 41.68 | 42.05 | 44.27 | 46.83 | 47.35 | 49.69 | 52.14 | 52.23 | 45.51 | 47.82 | 45.54 | 39.75 | 34.64 | 32.00 |
| 61845  | 1.94  | 1.62  | 1.47  | 1.46  | 1.44  | 1.91  | 2.26  | 2.34  | 2.58  | 2.51  | 2.36  | 2.42  | 2.51  | 2.86  | 2.85  | 3.12  | 3.23  | 3.33  | 2.82  | 2.92  | 2.74  | 2.53  | 2.33  | 2.23  |
|        | -0.89 | -4.04 | -6.07 | -6.24 | -6.12 | -0.50 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |       |

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| O H<br>61846  | 25.21 | 22.75 | 21.44 | 20.96 | 21.03 | 25.55 | 31.81 | 31.92 | 33.54 | 36.48 | 38.84 | 38.40 | 40.66 | 41.48 | 42.90 | 44.61 | 46.70 | 46.49 | 41.17 | 43.02 | 41.32 | 35.65 | 30.95 | 28.98 |
|               | -0.08 | 0.20  | 0.31  | 0.28  | 0.26  | -0.87 | -0.72 | -1.76 | -1.97 | -1.22 | -0.20 | -0.59 | -0.79 | -1.50 | -1.25 | -1.58 | -1.81 | -2.01 | -1.20 | -1.53 | -1.15 | -1.30 | -1.16 | -0.63 |
|               | -0.06 | -0.29 | -0.44 | -0.45 | -0.44 | 0.09  | 0.21  | 0.23  | 0.24  | 0.27  | 0.29  | 0.64  | 0.31  | 1.00  | 0.35  | 0.38  | 0.40  | 0.41  | 0.33  | 0.36  | 0.33  | 0.27  | 0.20  | 0.17  |
| PJM<br>61847  | 26.66 | 25.13 | 24.46 | 24.03 | 24.08 | 27.20 | 33.52 | 34.43 | 36.12 | 38.65 | 40.34 | 40.53 | 42.59 | 44.65 | 45.36 | 47.36 | 49.69 | 49.63 | 43.48 | 45.50 | 43.47 | 37.85 | 33.08 | 30.59 |
|               | 1.01  | 0.96  | 0.89  | 0.85  | 0.85  | 0.58  | 0.98  | 0.75  | 0.61  | 0.95  | 1.30  | 1.19  | 1.13  | 1.01  | 1.20  | 1.16  | 1.17  | 1.13  | 1.11  | 0.94  | 0.99  | 0.89  | 0.87  | 0.98  |
|               | -0.42 | -1.91 | -2.87 | -2.96 | -2.90 | -0.11 | 0.21  | 0.22  | 0.24  | 0.27  | 0.28  | 0.29  | 0.30  | 0.33  | 0.34  | 0.37  | 0.40  | 0.40  | 0.32  | 0.35  | 0.32  | 0.26  | 0.11  | 0.17  |
| WEST<br>61752 | 25.89 | 23.32 | 21.98 | 21.49 | 21.54 | 26.15 | 32.73 | 32.73 | 34.47 | 37.69 | 40.29 | 40.96 | 42.16 | 45.07 | 44.37 | 46.10 | 48.11 | 47.91 | 42.45 | 44.28 | 42.52 | 36.61 | 31.76 | 29.72 |
|               | 0.60  | 0.78  | 0.87  | 0.83  | 0.79  | -0.27 | 0.20  | -0.95 | -1.04 | 0.00  | 1.26  | 0.87  | 0.71  | 0.00  | 0.22  | -0.09 | -0.39 | -0.58 | 0.09  | -0.27 | 0.04  | -0.34 | -0.35 | 0.12  |
|               | -0.06 | -0.28 | -0.42 | -0.43 | -0.43 | 0.09  | 0.22  | 0.23  | 0.25  | 0.27  | 0.29  | -0.46 | 0.31  | -1.09 | 0.35  | 0.38  | 0.41  | 0.41  | 0.33  | 0.36  | 0.33  | 0.27  | 0.20  | 0.17  |